PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 103-1032	FOR FURTHER ACT	ION	See Form PCT/IPEA/416			
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)			
PCT/JP2004/002012	20 February 2004	(20.02.2004)	21 February 2003 (21.02.2003)			
International Patent Classification (IPC) or B32B 9/00, 7/02, 27/00, C08J 7	national classification and 7/06, G02B 1/10	IPC				
Applicant ASAHI KASEI KABUSHIKI KAISHA						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total of 4 sheets, including this cover sheet.						
3. This report is also accompanied by ANNEXES, comprising:						
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
	indicated in the Supplement	ing a sequence list	type and number of electronic carrier(s)) ing and/or tables related thereto, in computer to Sequence Listing (see Section 802 of the			
4. This report contains indications re	clating to the following iten	ns:				
Box No. I Basis of the	Box No. I Basis of the report					
Box No. II Priority						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain documents cited						
Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application						
Date of submission of the demand		Date of completio	n of this report			
26 March 2004 (26.03.2004)		03 February 2005 (03.02.2005)				
Name and mailing address of the IPEA/JP		Authorized officer				
Feesimile No.		Telephone No.				

Translation

International application No.

PCT/JP2004/002012

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. I	Basis of the report						
With regard otherwise i	d to the language, this report is based on the international application in the language in which it was filed, unless indicated under this item.						
This whi	This report is based on translations from the original language into the following language, which is language of a translation furnished for the purpose of:						
	international search (under Rules 12.3 and 23.1(b))						
П	publication of the international application (under Rule 12.4)						
	international preliminary examination (under Rules 55.2 and/or 55.3)						
furnished and are no	rd to the elements of the international application, this report is based on (replacement sheets which have been to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" of annexed to this report):						
	international application as originally filed/furnished						
	description:						
page							
page							
page	es*						
the	claims:						
pag	1.16. 10. 11. 11. 11. 11. 11. 11.						
pag							
pag							
pag	est						
the	drawings:						
pag							
	received by this Authority on received by this Authority on						
a so	equence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.						
3. Th	e amendments have resulted in the cancellation of:						
	the description, pages						
-	the claims, Nos.						
-	the drawings, sheets/figs						
-	the sequence listing (specify):						
-	any table(s) related to sequence listing (specify):						
-	any table(s) related to sequence fishing (specify).						
m	ais report has been established as if (some of) the amendments annexed to this report and listed below had not been ade, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (sule 70.2(c)). the description, pages						
* If item 4	applies, some or all of those sheets may be marked "superseded."						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/JP04/002012

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement						
Novelty (N)	Claims	1-6, 10, 11, 14	YES			
	Claims	7-9, 12, 13	NO			
Inventive step (IS)	Claims	1-6, 10, 11, 14	YES			
	Claims	7-9, 12, 13	МО			
Industrial applicability (IA)	Claims	1-14	YES			
	Claims		NO			

2. Citations and explanations (Rule 70.7)

Document 1: JP, 2001-278637, A (Nippon Sheet Glass Co., Ltd.), 10 October, 2001 (10.10.01), & WO, 01-042156, A1, & EP, 1167313, A1

Document 2: JP, 2002-371148, A (Mitsubishi Rayon Co., Ltd.), 26 December, 2002 (26.12.02)

Document 3: JP, 11-292568, A (Nippon Sheet Glass Co., Ltd.), 26 October, 1999 (26.10.99), & WO, 99-29635, A1, & EP, 974560, A1

Claims 7 and 8

Document 1 describes that chain-like agglomerated fine silica particles with an average primary particle size of 10 to 100 nm, a hydrolyzable metal compound, water and a solvent are mixed and hydrolyzed to obtain a coating composition destined to form a low reflection film consisting of fine silica particles and a binder on a substrate (the claims), and also describes a hydrolyzable group-containing silane as the hydrolyzable metal compound (Example 5). So, the subject matters of claims 7 and 8 do not appear to be novel or to involve an inventive step.

Claim 9

Document 1 describes mixing 53.3 g of chain-like agglomerated fine silica particles and 6.9 g of tetraethoxysilane. So, the subject matter of claim 9 does not appear to be novel or to involve an inventive step.

Claim 12

Document 1 describes that a preferred raw material mixing ratio of a coating composition consists of 100 parts by weight of a hydrolyzable metal compound, 150 to 1900 parts by weight of chain-like agglomerated fine silica particles, 50 to 10000 parts by weight of water, 0 to 200 parts by weight of an acid catalyst and 1000 to 500000 parts by weight of a solvent (Table I). So, the subject matter of claim 12 does not appear to be novel or to involve an inventive step.

Claim 13

Document 1 describes a reflection preventive film containing a porous silica layer with a low refractive index formed by using a coating composition obtained by mixing chain-like agglomerated fine silica particles with an average primary particle size of 10 to 100 nm, a hydrolyzable metal compound, water and a solvent. So, the subject matter of claim 13 does not appear to be novel or to involve an inventive step.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP04/002012

upplemental Box						
case the space in any of the preceding boxes is not sufficient. ontinuation of: V						
Claims 1-6, 10, 11 and 14 The subject matters of claims 1-6, 10, 11 and 14 are neither described in any of the documents cited in the ISR nor obvious to a person skilled in the art.						
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